CLAIMS

What is claimed is:

[c01] A method, comprising:

subtracting a current value of a pointer from a maximum value of the pointer; comparing to a desired value; and asserting a stall when the desired value is achieved.

- [c02] A method according to claim 1, further comprising initializing the desired value of the pointer.
- [c03] A method according to claim 1, further comprising initializing the desired value of the pointer to an integer value.
- [c04] A method according to claim 1, further comprising initializing the desired value of the pointer to zero.
- [c05] A method, comprising:

advancing instructions along a pipeline, the pipeline having a minimum amount of open space;

subtracting the minimum amount of open space from a current amount of open space within the pipeline;

comparing to a desired value; and asserting a stall when the desired value is achieved.

[c06] A method according to claim 5, further comprising initializing the desired value.

- [c07] A method according to claim 5, further comprising initializing the desired value to an integer value.
- [c08] A method according to claim 5, further comprising initializing the desired value to zero.
- [c09] A method according to claim 5, wherein the step of asserting the stall comprises asserting an instruction stall.
- [c10] A method according to claim 5, wherein the step of asserting the stall comprises asserting a register stall.
- [c11] A method according to claim 5, wherein the step of comparing to the desired value comprises comparing to the desired value each clock cycle.
- [c12] A method according to claim 5, further comprising increasing the current amount of open space as an instruction is retired.
- [c13] A method according to claim 5, further comprising decreasing the current amount of open space for an incoming instruction.
- [c14] A method, comprising:

advancing instructions along a staged pipeline;

establishing a single pointer to indicate the amount of open space within the pipeline; and

asserting a stall condition when the single pointer indicates resources are limited.

[c15] A method according to claim 14, further comprising establishing a minimum number of open spaces within the pipeline.

- [c16] A method according to claim 15, wherein the minimum number of open spaces corresponds to the number of instructions per stage.
- [c17] A method according to claim 14, further comprising establishing a maximum amount of open space within the pipeline.
- [c18] A method according to claim 14, further comprising comparing the value of the single pointer to a desired value.